



The Perfect Lighting Choice.™

visit us at www.JDG.com

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 3 LIGHT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 18097-B
[TESTLAB] LightLab International (www.LightLabInternational.com)
[MANUFAC] Justice Design Group, Los Angeles, CA 90071
[LUMCAT] Clouds Resin (CLD) 3-Light Bath Bar
[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: CLD 3-Light
[MORE] Steel formed housing and three frosted resin lenses with white interior.
[MORE] 30 LEDs mounted in three circular arrays with white plastic dome lenses.
[MORE] No driver.
[MORE] Operating at 120 VAC and 60 Hz.
[MORE] Simulated data from test of one and six lamp fixtures.
[ISSUE DATE] April 20, 2018

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1546
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	22.49
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.50 m
Luminous Height	0.14 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2758	3075	6544
55	2326	2425	4645
65	2080	2101	3866
75	1931	1901	3892
85	1859	1801	4354

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 3 LIGHT.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	242.321	242.321	242.321	242.321	242.321	242.321	242.321	242.321	242.321
0.5	239.975	240.673	241.594	241.706	242.488	243.466	244.220	244.276	244.304
1.0	240.589	241.399	241.790	241.958	242.795	244.360	245.561	246.035	246.398
1.5	242.516	242.991	242.991	242.572	243.605	245.644	247.404	248.521	248.968
2.0	244.667	244.862	244.723	243.522	244.555	247.041	249.555	251.286	251.845
2.5	247.292	247.460	246.734	244.946	245.756	248.717	251.984	254.331	254.973
3.0	250.420	249.890	248.968	246.622	246.985	250.448	254.722	257.347	258.213
3.5	253.576	252.822	251.454	248.326	248.409	252.236	257.263	260.503	261.872
4.0	256.844	256.062	253.772	250.225	249.834	254.331	260.084	263.715	265.056
4.5	260.140	258.995	256.453	252.012	251.370	256.425	262.821	267.067	268.631
5.0	263.240	262.346	259.051	253.940	252.822	258.492	265.391	270.139	272.010
5.5	266.368	265.279	261.648	256.090	254.414	260.559	268.212	273.546	275.362
6.0	269.971	268.519	264.302	258.157	256.006	262.793	271.172	276.926	279.272
6.5	273.211	271.647	267.150	260.168	257.487	264.916	273.937	280.194	282.372
7.0	276.451	274.664	269.832	262.319	259.190	267.067	276.898	283.601	285.947
7.5	279.663	278.043	272.569	264.441	260.866	269.301	279.859	286.925	289.411
8.0	282.707	281.143	275.390	266.480	262.542	271.508	282.652	290.165	292.734
8.5	285.836	284.355	278.099	268.631	264.078	273.742	285.584	293.405	296.058
9.0	289.355	287.344	280.864	270.781	265.866	275.948	288.601	296.533	299.382
9.5	292.651	290.444	283.685	272.876	267.681	278.211	291.198	299.577	302.705
10.0	295.807	293.684	286.366	275.055	269.245	280.305	293.991	302.957	305.973
10.5	298.935	297.091	289.187	277.317	270.921	282.568	296.896	306.057	309.269
11.0	302.510	300.024	291.896	279.468	272.597	284.802	299.577	309.157	312.537
11.5	305.861	303.152	294.550	281.814	274.301	287.037	302.398	312.146	315.581
12.0	308.962	306.364	297.371	283.964	276.004	289.271	305.135	315.358	318.737
12.5	311.503	309.241	300.303	286.059	277.652	291.589	307.817	318.151	321.837
13.0	313.291	312.062	302.901	288.238	279.244	293.740	310.526	321.223	324.602
13.5	314.408	314.296	305.778	290.360	280.976	296.002	313.151	324.044	326.921
14.0	314.771	315.721	308.347	292.315	282.652	298.097	315.721	326.613	328.457
14.5	315.637	316.894	311.056	294.522	284.132	300.247	318.262	328.708	329.295
15.0	316.279	317.648	313.598	296.645	285.975	302.370	320.944	330.216	329.658
15.5	316.922	318.234	316.028	298.795	287.651	304.381	323.374	330.803	329.546
16.0	317.145	318.989	318.095	300.918	289.075	306.532	325.803	331.166	329.378
16.5	317.424	319.072	319.966	302.901	290.612	308.599	328.289	331.110	328.987
17.0	317.452	319.268	321.586	304.912	292.427	310.526	330.496	330.831	328.401
17.5	317.815	319.687	322.871	307.007	293.879	312.453	332.395	330.524	328.177
18.0	317.620	319.631	323.681	308.934	295.416	314.520	334.099	329.993	327.423
18.5	317.815	319.603	324.379	310.889	297.036	316.391	335.160	329.490	326.669
19.0	317.760	319.743	324.686	312.844	298.600	318.374	335.747	328.932	325.943
19.5	317.341	319.324	324.910	314.827	300.164	320.190	335.970	328.317	325.105
20.0	316.810	319.212	324.993	316.587	301.644	322.173	335.858	327.479	324.435
20.5	316.363	318.961	324.966	318.542	303.292	323.960	335.551	326.753	323.457
21.0	315.330	318.262	324.854	320.301	304.800	325.831	335.104	325.915	322.536
21.5	314.771	317.564	324.630	322.145	306.364	327.675	334.518	324.882	321.614
22.0	314.212	317.033	324.267	323.820	307.928	329.351	333.903	323.932	320.413
22.5	313.291	316.112	323.904	325.412	309.520	331.138	333.289	322.759	318.989
23.0	312.397	315.022	323.513	326.809	311.001	332.702	332.423	321.530	317.815
23.5	311.112	313.738	322.731	327.786	312.313	334.350	331.445	320.357	316.223
24.0	309.883	312.397	322.033	328.624	313.877	335.886	330.496	318.765	314.604
24.5	308.822	311.308	321.223	329.351	315.246	337.394	329.434	317.005	313.151
25.0	307.537	309.827	320.106	329.937	316.642	338.707	328.233	315.525	311.503
25.5	306.113	308.431	319.044	330.384	318.039	339.713	327.088	313.738	309.632
26.0	304.549	306.839	317.732	330.496	319.240	340.606	325.580	311.811	307.844
26.5	303.068	305.191	316.363	330.831	320.525	341.165	324.211	309.967	305.722

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 3 LIGHT.IES

CANDELA TABULATION - (Cont.)

27.0	301.030	303.376	314.827	330.719	321.698	341.416	322.675	307.817	303.711
27.5	299.633	301.840	313.235	330.496	322.843	341.472	320.860	305.833	301.644
28.0	297.566	299.968	311.364	329.965	323.904	341.249	319.044	303.627	299.410
28.5	295.583	297.790	309.464	329.378	325.105	340.578	317.061	301.365	297.008
29.0	293.684	295.723	307.593	328.317	326.278	339.713	314.911	298.935	294.606
29.5	291.589	293.768	305.470	327.228	327.340	338.540	312.732	296.505	292.148
30.0	289.494	291.617	303.208	325.887	328.205	337.059	310.386	294.019	289.439
30.5	286.869	289.383	300.890	324.239	329.323	335.467	307.761	291.338	286.618
31.0	284.802	287.316	298.460	322.787	330.188	333.680	305.219	288.601	283.964
31.5	282.568	284.942	296.114	321.055	331.166	331.725	302.538	285.919	280.976
32.0	279.914	282.456	293.768	319.044	332.116	329.462	299.801	283.098	278.183
32.5	277.512	280.110	291.003	317.089	332.674	326.977	296.924	280.082	274.887
33.0	274.915	277.485	288.433	314.771	333.372	324.267	294.131	277.010	271.843
33.5	271.926	275.083	285.836	312.313	333.903	321.614	291.226	273.854	268.212
34.0	269.497	272.317	282.959	309.995	333.736	318.430	288.098	270.809	265.139
34.5	266.899	269.636	280.278	307.118	333.317	315.386	285.054	267.569	261.760
35.0	263.827	266.815	277.373	304.241	331.920	312.202	281.730	264.274	258.157
35.5	261.090	264.218	274.580	301.281	330.021	308.906	278.602	260.950	254.610
36.0	258.185	261.173	271.563	298.181	327.563	305.415	275.334	257.347	251.230
36.5	255.113	258.325	268.742	294.829	324.658	302.091	272.010	254.051	247.516
37.0	252.403	255.476	265.726	291.394	320.999	298.348	268.603	250.588	243.969
37.5	249.499	252.487	262.542	287.902	316.419	294.689	265.139	246.901	240.198
38.0	246.426	249.415	259.637	284.411	311.364	291.003	261.732	243.270	236.483
38.5	243.466	246.371	256.453	280.669	306.113	287.120	258.017	239.444	232.880
39.0	240.477	243.466	253.409	276.954	300.694	283.406	254.498	235.813	229.222
39.5	237.628	240.338	250.253	273.100	295.276	279.496	250.839	231.987	225.367
40.0	235.171	237.349	247.013	269.273	289.830	275.641	247.236	228.244	221.764
40.5	232.322	234.305	243.773	265.503	284.663	271.675	243.410	224.473	218.022
41.0	229.445	231.372	240.617	261.537	279.496	267.793	239.695	220.703	214.419
41.5	227.294	228.495	237.237	257.850	274.496	263.827	235.841	216.876	210.955
42.0	224.948	225.619	233.942	253.967	269.860	259.861	232.042	213.134	207.464
42.5	222.993	222.770	230.562	250.057	265.084	255.811	228.076	209.447	204.112
43.0	221.317	220.116	227.266	246.203	260.587	251.845	224.110	205.844	200.621
43.5	219.865	217.826	223.859	242.153	256.369	247.683	220.228	202.381	197.716
44.0	218.664	215.508	220.563	238.187	252.152	243.494	216.094	198.722	194.896
44.5	216.876	213.720	217.240	234.444	248.074	239.388	212.100	195.510	192.242
45.0	215.396	211.989	213.832	230.227	243.996	235.031	208.051	192.410	190.092
45.5	214.000	210.341	210.704	226.345	240.198	230.897	204.224	189.589	187.969
46.0	212.464	208.972	207.436	222.379	236.176	226.484	200.258	186.963	185.958
46.5	210.844	207.408	204.252	218.413	232.406	222.071	196.320	184.673	183.835
47.0	209.196	205.760	201.292	214.223	228.356	217.686	192.242	182.550	181.685
47.5	207.743	204.308	198.219	210.201	224.250	213.162	188.527	180.428	179.534
48.0	206.263	202.828	195.594	206.179	220.144	208.665	184.813	178.417	177.300
48.5	204.643	201.124	193.024	201.934	215.899	204.029	181.098	176.294	175.428
49.0	203.330	199.616	190.818	197.968	211.570	199.616	177.691	174.255	173.417
49.5	201.822	198.052	188.555	193.778	207.129	195.007	174.395	172.161	171.323
50.0	200.342	196.571	186.572	189.728	202.604	190.622	171.490	170.233	169.451
50.5	198.862	194.979	184.534	185.846	197.856	186.070	168.753	168.139	167.496
51.0	197.521	193.555	182.802	182.048	193.108	181.489	166.267	166.239	165.429
51.5	196.292	191.935	181.238	177.802	188.332	177.048	164.061	164.200	163.670
52.0	194.672	190.622	179.841	174.088	183.277	172.635	161.966	162.441	161.854
52.5	193.555	189.170	178.277	170.345	178.110	168.278	160.179	160.514	160.011
53.0	192.158	187.662	176.797	166.491	173.222	163.977	158.168	158.531	158.196
53.5	190.985	186.293	175.261	163.167	168.167	159.899	156.296	157.078	156.352
54.0	189.784	185.064	173.836	159.732	163.223	155.849	154.509	155.067	154.704
54.5	188.192	183.612	172.328	156.604	158.531	152.135	152.693	153.364	153.196

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 3 LIGHT.IES

CANDELA TABULATION - (Cont.)

55.0	186.935	182.495	170.876	153.783	153.755	148.364	150.906	151.576	151.409
55.5	186.098	181.238	169.395	151.436	149.258	144.845	149.118	149.956	149.928
56.0	184.952	179.953	168.027	149.034	144.733	141.884	147.331	148.308	148.252
56.5	183.807	178.668	166.491	147.107	140.516	139.063	145.599	146.716	146.632
57.0	182.830	177.635	165.122	145.040	136.578	136.913	143.979	145.068	145.124
57.5	181.657	176.238	163.754	143.085	132.667	135.209	142.303	143.476	143.616
58.0	180.735	175.121	162.301	141.661	129.037	133.813	140.516	141.968	142.080
58.5	179.450	174.088	161.072	140.572	125.853	132.332	138.924	140.404	140.460
59.0	178.584	172.915	159.788	139.259	123.143	130.964	137.360	138.812	139.036
59.5	177.495	171.797	158.447	138.114	120.909	129.623	135.684	137.444	137.751
60.0	176.322	170.764	157.218	136.913	119.233	128.227	134.232	135.935	136.131
60.5	175.289	169.703	156.017	135.684	117.837	126.746	132.667	134.371	134.874
61.0	174.367	168.613	154.760	134.399	116.692	125.294	131.075	133.003	133.254
61.5	173.613	167.664	153.336	133.254	115.658	123.925	129.679	131.550	132.053
62.0	172.496	166.547	152.274	131.830	114.681	122.585	128.143	130.154	130.517
62.5	171.462	165.485	151.073	130.684	113.535	121.132	126.774	128.785	129.065
63.0	170.569	164.452	149.817	129.428	112.446	119.736	125.378	127.221	127.864
63.5	169.395	163.418	148.699	128.199	111.329	118.339	123.953	126.020	126.383
64.0	168.474	162.525	147.666	127.026	110.184	117.083	122.473	124.680	125.126
64.5	167.803	161.519	146.437	125.713	109.011	115.658	121.188	123.395	123.758
65.0	166.854	160.514	145.515	124.540	107.894	114.373	119.820	121.998	122.473
65.5	165.792	159.536	144.258	123.423	106.721	112.893	118.311	120.853	121.160
66.0	164.871	158.670	143.253	122.194	105.575	111.636	117.055	119.512	119.903
66.5	164.061	157.609	142.136	120.909	104.458	110.351	115.658	118.200	118.730
67.0	163.195	156.799	141.046	119.959	103.118	108.955	114.234	116.887	117.418
67.5	162.162	155.821	139.929	118.786	102.084	107.586	113.089	115.658	116.133
68.0	161.268	154.816	138.952	117.446	100.995	106.497	111.832	114.373	114.988
68.5	160.486	153.894	137.946	116.412	99.766	105.045	110.519	113.256	113.899
69.0	159.676	153.084	136.857	115.267	98.565	103.928	109.374	111.999	112.446
69.5	158.782	152.135	135.879	114.038	97.448	102.727	108.089	110.798	111.329
70.0	158.000	151.325	134.790	113.033	96.247	101.358	106.944	109.625	110.268
70.5	156.967	150.375	133.701	111.943	95.074	100.157	105.715	108.508	108.815
71.0	156.073	149.481	132.919	110.687	93.929	98.956	104.486	107.223	107.838
71.5	155.375	148.783	131.941	109.709	92.811	97.755	103.285	106.134	106.693
72.0	154.565	147.861	130.908	108.564	91.722	96.470	102.168	104.933	105.575
72.5	153.811	146.996	130.042	107.391	90.577	95.353	100.995	103.872	104.402
73.0	152.889	146.158	129.092	106.469	89.460	94.152	99.906	102.671	103.313
73.5	152.023	145.376	128.115	105.324	88.343	92.951	98.705	101.637	102.168
74.0	151.436	144.454	127.221	104.207	87.281	91.806	97.643	100.520	101.135
74.5	150.794	143.588	126.216	103.285	86.080	90.633	96.526	99.431	99.989
75.0	149.872	142.890	125.350	102.308	85.103	89.599	95.493	98.425	98.844
75.5	148.951	142.024	124.568	101.190	84.041	88.538	94.375	97.224	97.811
76.0	148.197	141.242	123.702	100.241	82.896	87.337	93.258	96.191	96.694
76.5	147.303	140.460	122.724	99.291	81.807	86.360	92.197	95.130	95.716
77.0	146.409	139.622	122.026	98.286	80.857	85.298	91.080	94.152	94.711
77.5	145.962	138.952	121.104	97.252	79.740	84.125	90.074	93.035	93.789
78.0	145.124	138.114	120.127	96.358	78.818	83.176	89.069	92.001	92.672
78.5	144.175	137.276	119.429	95.241	77.729	82.142	88.063	90.996	91.694
79.0	143.672	136.494	118.591	94.431	76.724	81.025	87.002	90.018	90.493
79.5	142.694	135.740	117.641	93.593	75.718	79.992	85.996	88.957	89.572
80.0	142.247	134.958	116.943	92.504	74.769	78.986	84.991	87.979	88.594
80.5	141.438	134.287	116.049	91.666	73.875	78.008	83.930	87.086	87.728
81.0	140.628	133.561	115.239	90.772	72.897	77.003	83.092	86.052	86.583
81.5	140.097	132.695	114.513	89.879	72.087	76.165	82.142	85.131	85.661
82.0	139.175	131.969	113.647	89.097	71.166	75.160	81.081	84.293	84.795
82.5	138.561	131.383	112.781	88.287	70.216	74.126	80.187	83.343	83.874

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 3 LIGHT.IES

CANDELA TABULATION - (Cont.)

83.0	137.639	130.517	112.111	87.365	69.294	73.288	79.293	82.393	82.896
83.5	136.969	129.902	111.357	86.527	68.456	72.422	78.344	81.416	81.919
84.0	136.382	129.232	110.519	85.829	67.591	71.473	77.506	80.606	80.997
84.5	135.656	128.422	109.905	84.935	66.781	70.579	76.556	79.600	80.047
85.0	135.069	127.696	109.178	84.209	66.027	69.685	75.746	78.791	79.377
85.5	134.427	127.026	108.368	83.455	65.133	68.736	74.964	77.897	78.400
86.0	133.757	126.327	107.670	82.645	64.407	67.982	73.959	76.835	77.701
86.5	133.059	125.769	107.112	81.947	63.597	67.116	73.121	76.053	76.556
87.0	132.304	125.071	106.302	81.416	62.870	66.306	72.367	75.327	75.774
87.5	131.690	124.344	105.715	80.578	62.312	65.552	71.529	74.406	75.048
88.0	131.103	123.925	105.129	80.047	61.474	64.798	70.803	73.651	74.126
88.5	130.461	123.283	104.486	79.461	60.971	64.043	70.021	72.897	73.316
89.0	130.349	122.920	104.011	78.818	60.385	63.513	69.266	72.031	72.395
89.5	130.405	122.892	104.011	78.763	59.966	62.954	68.568	71.333	71.696
90.0	130.154	123.060	104.207	78.874	60.189	62.815	68.289	70.914	71.221
90.5	130.573	123.227	104.235	78.958	60.189	62.870	68.121	70.691	71.082
91.0	130.936	123.339	104.402	79.126	60.133	62.870	67.982	70.579	70.942
91.5	131.048	123.674	104.542	79.293	60.329	62.898	67.954	70.523	70.691
92.0	131.271	123.646	104.821	79.237	60.357	62.898	67.814	70.300	70.607
92.5	131.439	123.870	104.933	79.461	60.524	62.815	67.702	70.076	70.412
93.0	131.662	124.065	104.933	79.656	60.468	62.647	67.702	69.993	70.300
93.5	131.997	124.205	105.324	79.740	60.748	62.675	67.702	69.881	70.104
94.0	132.137	124.484	105.436	79.964	60.692	62.619	67.451	69.769	69.881
94.5	132.332	124.568	105.603	80.019	60.832	62.479	67.535	69.574	69.546
95.0	132.751	124.763	105.715	80.159	60.832	62.479	67.339	69.183	69.350
95.5	132.695	125.071	105.855	80.327	60.915	62.451	67.200	69.071	69.266
96.0	133.031	125.210	106.050	80.438	60.971	62.396	67.060	68.931	68.903
96.5	133.198	125.350	106.385	80.522	61.139	62.312	66.892	68.624	68.736
97.0	133.394	125.545	106.330	80.718	61.111	62.256	66.809	68.428	68.373
97.5	133.533	125.713	106.497	80.941	61.139	62.116	66.725	68.373	68.233
98.0	133.841	125.741	106.693	80.913	61.362	62.172	66.473	68.093	68.010
98.5	133.868	125.992	106.832	81.165	61.390	62.005	66.390	67.898	67.730
99.0	134.036	126.160	106.832	81.388	61.474	61.837	66.334	67.674	67.507
99.5	134.232	126.216	107.028	81.304	61.530	61.837	66.027	67.451	67.116
100.0	134.287	126.355	107.112	81.472	61.669	61.725	65.971	67.255	66.948
100.5	134.511	126.383	107.139	81.611	61.697	61.642	65.887	66.976	66.669
101.0	134.483	126.467	107.251	81.779	61.837	61.530	65.719	66.669	66.390
101.5	134.790	126.523	107.363	81.835	61.893	61.334	65.524	66.501	65.999
102.0	134.678	126.607	107.335	81.975	62.116	61.278	65.328	66.194	65.887
102.5	134.762	126.607	107.363	82.002	62.116	61.195	65.077	65.915	65.608
103.0	134.790	126.690	107.419	82.114	62.284	60.971	64.853	65.691	65.356
103.5	134.790	126.718	107.363	82.282	62.228	60.887	64.686	65.524	64.853
104.0	135.014	126.746	107.251	82.114	62.284	60.748	64.435	65.244	64.742
104.5	135.069	126.858	107.279	82.282	62.340	60.580	64.099	64.909	64.295
105.0	134.818	126.886	107.223	82.366	62.507	60.413	63.792	64.714	63.988
105.5	134.958	126.718	107.195	82.198	62.563	60.273	63.485	64.351	63.625
106.0	135.069	126.746	107.279	82.254	62.479	60.161	63.178	63.960	63.401
106.5	135.014	126.802	107.223	82.254	62.563	60.022	62.898	63.680	63.038
107.0	135.097	126.802	107.139	82.226	62.479	59.910	62.563	63.261	62.759
107.5	135.014	126.718	107.112	82.198	62.479	59.742	62.284	62.926	62.284
108.0	135.014	126.690	107.056	82.338	62.563	59.407	61.977	62.368	61.809
108.5	135.069	126.663	107.112	82.198	62.451	59.351	61.697	62.033	61.306
109.0	134.818	126.635	106.972	82.198	62.507	59.044	61.390	61.558	60.999
109.5	134.902	126.439	106.832	82.086	62.368	58.960	61.083	61.195	60.301
110.0	134.762	126.467	106.748	82.086	62.451	58.821	60.776	60.636	60.077
110.5	134.790	126.244	106.748	82.058	62.340	58.653	60.385	60.357	59.379

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 3 LIGHT.IES

CANDELA TABULATION - (Cont.)

111.0	134.623	126.272	106.637	82.142	62.368	58.485	60.133	59.882	58.876
111.5	134.539	126.188	106.637	82.030	62.228	58.346	59.686	59.491	58.625
112.0	134.204	126.132	106.525	82.002	62.200	58.066	59.407	58.988	58.011
112.5	134.287	126.020	106.302	81.919	62.256	57.983	59.156	58.597	57.452
113.0	134.232	125.853	106.302	81.835	62.228	57.731	58.849	58.178	56.949
113.5	134.064	125.713	106.162	81.723	62.144	57.620	58.402	57.592	56.558
114.0	133.841	125.629	105.966	81.723	62.116	57.480	58.122	57.284	56.111
114.5	133.896	125.462	105.883	81.584	62.088	57.201	57.843	56.642	55.553
115.0	133.561	125.266	105.631	81.472	61.949	57.033	57.256	56.028	54.910
115.5	133.450	125.294	105.520	81.388	61.977	56.810	57.117	55.469	54.408
116.0	133.170	124.903	105.296	81.193	61.753	56.782	56.642	54.715	53.821
116.5	133.198	124.791	105.156	81.165	61.837	56.447	56.167	54.128	53.235
117.0	132.835	124.596	104.933	81.025	61.697	56.335	55.972	53.598	52.229
117.5	132.528	124.316	104.849	80.885	61.558	56.139	55.664	52.844	51.698
118.0	132.360	124.121	104.514	80.662	61.446	55.888	55.218	52.285	50.805
118.5	132.109	124.009	104.346	80.550	61.278	55.692	54.827	51.670	50.162
119.0	131.774	123.646	104.151	80.494	61.195	55.525	54.603	51.028	49.380
119.5	131.494	123.479	103.955	80.355	61.195	55.357	54.100	50.302	48.542
120.0	131.243	123.311	103.788	80.131	60.999	55.162	53.877	49.548	47.788
120.5	131.048	122.864	103.564	79.852	60.859	54.882	53.458	48.877	47.062
121.0	130.768	122.669	103.229	79.852	60.636	54.687	53.011	48.263	46.308
121.5	130.266	122.473	102.950	79.712	60.636	54.408	52.816	47.649	45.526
122.0	130.042	122.054	102.754	79.377	60.552	54.184	52.425	46.950	44.716
122.5	129.651	121.775	102.559	79.182	60.329	54.100	52.062	46.364	44.046
123.0	129.344	121.523	102.196	79.098	60.189	53.765	51.754	45.721	43.291
123.5	128.925	120.993	101.889	78.735	60.077	53.598	51.447	45.163	42.370
124.0	128.869	120.602	101.693	78.623	60.022	53.430	50.944	44.492	41.755
124.5	128.171	120.322	101.386	78.427	59.798	53.151	50.693	43.934	41.085
125.0	127.696	119.876	101.107	78.204	59.603	53.095	50.442	43.319	40.387
125.5	127.221	119.512	100.688	77.897	59.463	52.844	50.134	42.789	39.856
126.0	126.663	119.010	100.380	77.729	59.407	52.732	49.939	42.314	39.270
126.5	126.439	118.535	100.017	77.450	59.267	52.592	49.576	41.755	38.683
127.0	125.601	118.172	99.710	77.310	59.184	52.453	49.157	41.308	38.097
127.5	125.043	117.613	99.291	77.059	59.072	52.229	48.933	40.917	37.650
128.0	124.652	117.110	98.928	76.752	58.876	52.173	48.682	40.303	37.147
128.5	124.037	116.552	98.537	76.584	58.876	52.117	48.319	39.800	36.672
129.0	123.423	116.245	98.202	76.277	58.625	51.866	48.040	39.242	36.197
129.5	123.004	115.630	97.727	76.081	58.513	51.698	47.844	38.767	35.890
130.0	122.194	115.239	97.336	75.690	58.402	51.391	47.341	38.320	35.443
130.5	121.719	114.681	96.889	75.495	58.402	51.307	47.146	37.901	34.857
131.0	121.160	114.122	96.470	75.327	58.122	51.140	46.867	37.510	34.605
131.5	120.686	113.647	96.107	74.964	58.011	51.028	46.531	36.979	34.354
132.0	119.876	113.089	95.576	74.880	57.927	50.916	46.252	36.588	33.879
132.5	119.149	112.362	95.185	74.461	57.759	50.749	46.057	36.169	33.460
133.0	118.647	111.832	94.739	74.126	57.508	50.581	45.721	35.806	33.376
133.5	117.893	111.273	94.264	73.903	57.480	50.442	45.470	35.527	32.957
134.0	117.278	110.603	93.817	73.568	57.229	50.386	45.163	35.136	32.818
134.5	116.692	109.988	93.342	73.205	57.201	50.218	44.967	34.717	32.455
135.0	115.993	109.402	92.756	72.869	56.977	49.995	44.688	34.466	32.175
135.5	115.323	108.648	92.392	72.590	56.810	50.023	44.409	34.158	31.896
136.0	114.569	108.257	91.834	72.255	56.614	49.715	44.074	33.656	31.533
136.5	113.871	107.614	91.359	72.031	56.474	49.576	43.766	33.432	31.170
137.0	113.089	106.860	90.856	71.613	56.335	49.408	43.655	33.097	30.779
137.5	112.307	106.218	90.354	71.305	56.056	49.269	43.236	32.706	30.639
138.0	111.469	105.547	89.823	71.026	56.000	49.017	43.096	32.538	30.555
138.5	110.826	104.821	89.376	70.663	55.832	49.017	42.984	32.259	30.192

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 3 LIGHT.IES**

CANDELA TABULATION - (Cont.)

139.0	109.988	104.235	88.789	70.244	55.525	48.933	42.593	31.868	29.969
139.5	109.262	103.481	88.231	69.909	55.385	48.738	42.398	31.645	29.690
140.0	108.704	102.810	87.477	69.629	55.301	48.682	42.202	31.337	29.410
140.5	107.922	102.000	87.086	69.099	54.966	48.431	41.839	31.114	29.159
141.0	107.139	101.470	86.471	68.903	54.855	48.235	41.727	30.723	28.824
141.5	106.469	100.576	85.969	68.456	54.631	48.207	41.448	30.444	28.544
142.0	105.659	99.906	85.326	68.010	54.352	48.040	41.225	30.109	28.209
142.5	104.682	99.207	84.795	67.674	54.184	47.844	41.085	29.969	27.874
143.0	103.900	98.397	84.181	67.228	53.989	47.788	40.890	29.522	27.790
143.5	103.062	97.587	83.511	66.781	53.765	47.537	40.554	29.271	27.539
144.0	102.280	96.833	82.924	66.445	53.458	47.341	40.498	29.047	27.371
144.5	101.442	96.051	82.338	66.082	53.263	47.397	40.443	28.880	27.176
145.0	100.548	95.381	81.807	65.524	53.011	47.174	40.135	28.517	27.036
145.5	99.738	94.599	81.193	65.217	52.844	46.978	39.940	28.377	27.008
146.0	98.816	93.761	80.522	64.798	52.564	46.755	39.856	28.181	27.176
146.5	98.006	92.895	79.824	64.351	52.257	46.671	39.605	27.762	27.148
147.0	97.196	92.141	79.293	63.904	51.978	46.503	39.633	27.567	27.064
147.5	96.358	91.191	78.651	63.457	51.894	46.364	39.381	27.399	27.148
148.0	95.353	90.409	77.953	63.038	51.531	46.168	39.214	27.176	27.204
148.5	94.403	89.655	77.366	62.563	51.391	46.001	39.074	26.925	27.260
149.0	93.398	88.901	76.668	62.172	51.056	45.889	39.018	26.673	27.399
149.5	92.700	88.035	75.998	61.614	50.749	45.805	38.851	26.561	27.539
150.0	91.750	87.086	75.327	61.223	50.414	45.526	38.711	26.366	27.511
150.5	90.828	86.360	74.629	60.776	50.246	45.470	38.627	26.254	27.679
151.0	89.935	85.354	74.014	60.217	49.939	45.247	38.460	26.226	27.874
151.5	89.125	84.544	73.372	59.826	49.660	45.135	38.320	26.003	27.762
152.0	87.952	83.790	72.618	59.435	49.408	44.911	38.208	25.751	27.707
152.5	87.002	82.812	72.004	58.849	49.073	44.800	37.985	25.724	27.818
153.0	86.276	81.891	71.166	58.262	48.850	44.660	38.013	25.612	27.790
153.5	85.159	81.081	70.579	57.815	48.514	44.437	37.957	25.584	27.902
154.0	84.209	80.187	69.825	57.368	48.235	44.241	37.733	25.528	27.818
154.5	83.176	79.237	69.043	56.810	47.984	44.046	37.733	25.528	27.762
155.0	82.142	78.260	68.373	56.279	47.732	43.822	37.566	25.500	27.762
155.5	81.220	77.310	67.674	55.720	47.397	43.655	37.342	25.556	27.930
156.0	80.327	76.472	66.920	55.329	47.062	43.543	37.342	25.584	27.930
156.5	79.098	75.551	66.110	54.715	46.867	43.291	37.342	25.472	28.098
157.0	78.344	74.685	65.468	54.128	46.420	43.124	37.175	25.249	28.042
157.5	77.254	73.735	64.658	53.598	46.057	42.845	37.119	25.137	27.902
158.0	76.277	72.702	64.016	53.151	45.805	42.705	37.091	24.941	27.902
158.5	75.411	71.892	63.345	52.536	45.386	42.482	36.951	24.578	27.874
159.0	74.322	70.998	62.479	51.978	45.051	42.174	36.896	24.439	27.902
159.5	73.316	69.993	61.753	51.503	44.716	42.091	36.840	24.104	27.930
160.0	72.283	68.987	60.971	50.805	44.353	41.783	36.644	24.076	27.902
160.5	71.361	68.065	60.245	50.274	44.046	41.672	36.477	23.936	27.874
161.0	70.272	67.060	59.407	49.771	43.738	41.392	36.309	23.880	28.098
161.5	69.099	66.110	58.709	49.045	43.319	41.169	36.058	23.545	28.209
162.0	68.010	65.161	57.759	48.431	42.984	40.890	35.806	23.322	28.349
162.5	66.976	64.183	57.033	47.956	42.789	40.694	35.415	23.070	28.349
163.0	65.943	63.150	56.251	47.313	42.258	40.415	34.549	22.903	28.405
163.5	64.826	62.228	55.385	46.755	42.035	40.135	33.628	22.484	28.572
164.0	63.904	61.195	54.631	46.224	41.699	40.052	32.483	21.785	28.489
164.5	62.759	60.133	53.821	45.470	41.281	39.716	31.058	21.171	27.958
165.0	61.669	59.072	53.011	44.884	40.890	39.186	29.745	20.864	27.120
165.5	60.496	58.122	52.173	44.213	40.526	38.571	28.349	20.724	26.003
166.0	59.491	57.089	51.307	43.683	40.052	37.594	26.673	20.612	24.718
166.5	58.290	56.000	50.330	43.096	39.521	36.253	25.277	20.333	22.903

**IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 3 LIGHT.IES**

CANDELA TABULATION - (Cont.)

167.0	57.061	54.966	49.548	42.537	38.683	34.829	24.159	20.193	20.752
167.5	55.972	53.933	48.738	41.839	37.482	33.125	23.042	19.607	18.881
168.0	54.715	52.704	47.621	41.308	35.806	31.282	22.344	19.216	16.646
168.5	53.570	51.615	46.783	40.638	34.326	29.550	21.897	18.741	14.579
169.0	52.397	50.609	46.001	39.633	32.315	27.707	21.394	17.819	12.122
169.5	51.168	49.548	44.967	38.404	30.527	25.919	21.199	16.814	9.496
170.0	49.883	48.403	43.934	36.756	28.517	24.550	20.808	15.361	7.066
170.5	48.654	46.950	42.845	35.052	26.813	23.657	20.249	13.574	5.111
171.0	47.397	45.610	41.253	33.265	25.388	22.763	19.802	12.010	3.128
171.5	46.252	44.465	39.884	31.393	24.411	22.260	19.020	10.669	2.067
172.0	44.911	43.180	38.543	29.606	23.545	21.897	17.680	9.077	1.843
172.5	43.766	41.420	36.672	28.293	22.791	21.255	16.116	7.513	1.815
173.0	41.755	39.828	34.885	27.064	22.148	20.529	14.524	6.005	1.732
173.5	39.353	38.013	32.874	25.612	21.339	19.048	12.429	5.083	1.480
174.0	38.069	35.667	30.555	24.439	20.668	16.898	10.278	4.692	1.285
174.5	35.974	33.404	28.461	23.098	19.411	14.747	8.211	4.217	1.089
175.0	33.460	30.974	26.450	21.422	17.596	12.289	6.564	3.854	0.838
175.5	30.192	28.153	24.076	19.719	15.361	9.608	5.614	3.184	0.614
176.0	26.925	25.025	21.730	17.680	12.987	7.290	4.972	2.653	0.810
176.5	23.405	21.506	18.964	14.803	10.222	5.614	4.245	1.871	0.642
177.0	19.300	17.931	15.864	11.870	7.737	4.720	3.575	1.229	0.531
177.5	15.054	13.909	12.932	9.245	5.698	4.162	3.016	0.810	0.531
178.0	10.530	9.748	9.859	6.284	4.189	3.463	2.374	0.670	0.894
178.5	6.703	6.228	6.508	3.994	3.380	2.849	1.788	0.726	0.614
179.0	3.938	3.743	3.491	2.486	2.625	2.262	1.396	0.670	0.698
179.5	1.396	2.123	1.341	1.341	1.815	1.815	0.866	0.698	0.978
180.0	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 3 LIGHT.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	113.85	N.A.	7.40
0-30	261.45	N.A.	16.90
0-40	439.93	N.A.	28.50
0-60	752.78	N.A.	48.70
0-80	995.93	N.A.	64.40
0-90	1094.19	N.A.	70.80
10-90	1068.39	N.A.	69.10
20-40	326.08	N.A.	21.10
20-50	494.31	N.A.	32.00
40-70	441.77	N.A.	28.60
60-80	243.16	N.A.	15.70
70-80	114.24	N.A.	7.40
80-90	98.25	N.A.	6.40
90-110	179.63	N.A.	11.60
90-120	258.83	N.A.	16.70
90-130	325.02	N.A.	21.00
90-150	414.33	N.A.	26.80
90-180	452.12	N.A.	29.20
110-180	272.48	N.A.	17.60
0-180	1546.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.80
10-20	88.05
20-30	147.60
30-40	178.48
40-50	168.23
50-60	144.61
60-70	128.92
70-80	114.24
80-90	98.25
90-100	91.55
100-110	88.08
110-120	79.19
120-130	66.19
130-140	51.87
140-150	37.43
150-160	23.97
160-170	11.78
170-180	2.05

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 3 LIGHT.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71	71
1	100	94	89	85	94	89	85	81	80	76	73	71	68	66	63	61	59	54	54
2	90	81	74	68	85	77	70	65	69	64	59	61	57	53	54	51	48	44	44
3	82	71	63	56	77	67	60	54	60	54	49	54	49	44	47	44	40	37	37
4	75	63	54	47	70	60	51	45	53	47	41	48	42	38	42	38	34	31	31
5	69	56	47	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27	27
6	63	50	41	35	60	48	40	34	43	36	31	38	33	28	34	30	26	23	23
7	59	45	37	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18	18
9	51	38	30	24	48	36	28	23	33	26	22	29	24	20	27	22	19	16	16
10	47	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15	15

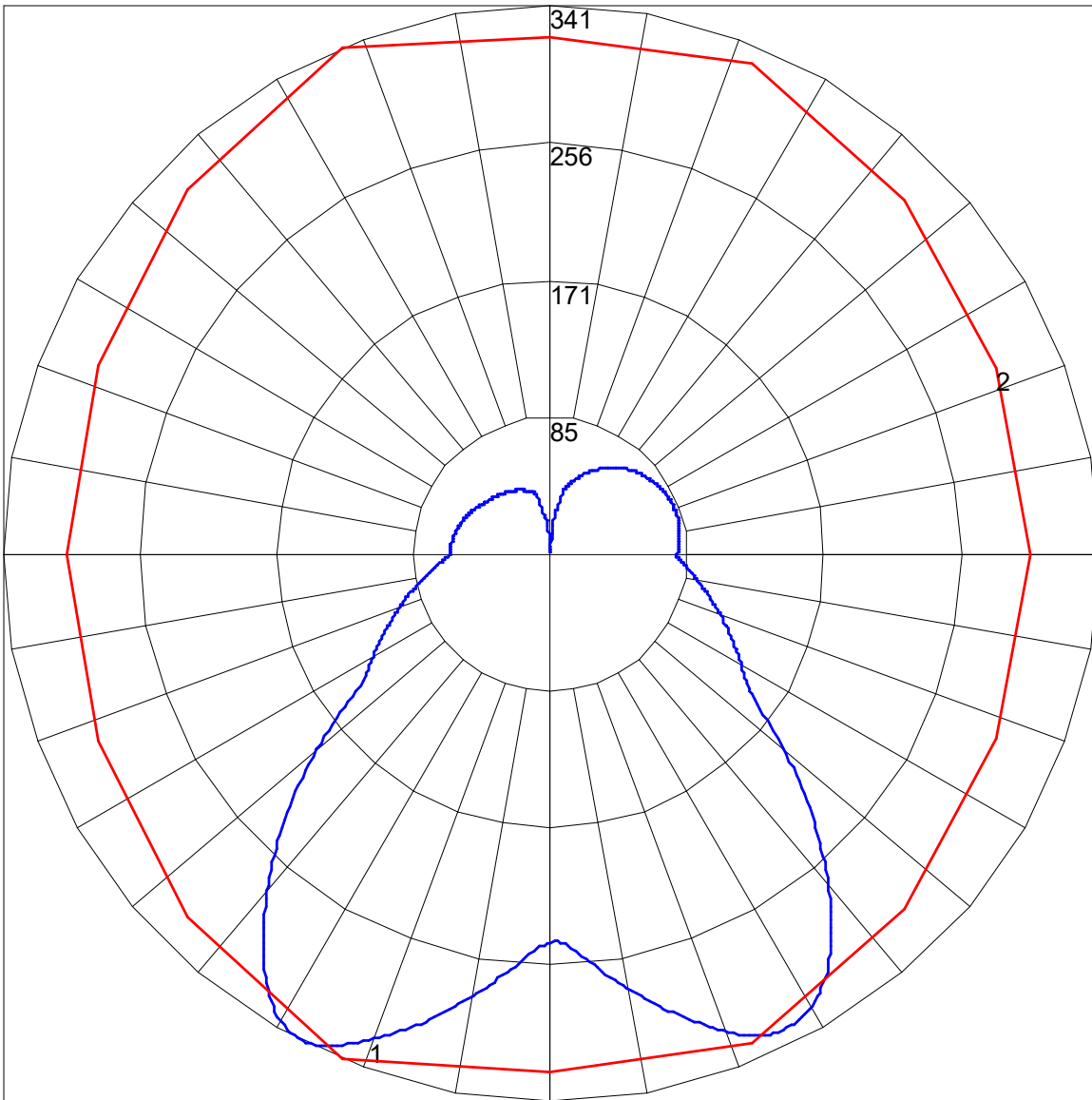
IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLD 3 LIGHT.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	12.7	13.8	13.4	14.6	15.6	10.9	12.1	11.7	12.9	13.8
	3H	15.0	16.1	15.7	16.8	17.8	12.8	13.8	13.5	14.6	15.6
	4H	16.1	17.1	16.9	17.9	18.9	13.6	14.6	14.3	15.3	16.3
	6H	17.2	18.1	18.0	18.9	19.9	14.3	15.2	15.1	16.0	17.0
	8H	17.7	18.6	18.5	19.4	20.4	14.6	15.5	15.4	16.3	17.3
	12H	18.2	19.0	19.0	19.9	20.9	14.9	15.8	15.7	16.6	17.6
4H	2H	13.3	14.3	14.1	15.1	16.1	11.9	12.9	12.7	13.7	14.7
	3H	15.9	16.7	16.7	17.6	18.6	13.9	14.8	14.7	15.6	16.6
	4H	17.2	18.0	18.0	18.8	19.8	14.9	15.7	15.7	16.5	17.5
	6H	18.4	19.1	19.2	20.0	21.0	15.7	16.4	16.6	17.3	18.3
	8H	19.0	19.7	19.8	20.5	21.6	16.1	16.8	17.0	17.6	18.7
	12H	19.6	20.2	20.5	21.1	22.1	16.5	17.1	17.4	18.0	19.0
8H	4H	17.6	18.2	18.4	19.1	20.1	15.6	16.2	16.4	17.1	18.1
	6H	19.1	19.6	19.9	20.5	21.5	16.7	17.2	17.5	18.1	19.1
	8H	19.8	20.3	20.7	21.2	22.3	17.2	17.7	18.0	18.6	19.6
	12H	20.6	21.1	21.5	21.9	23.0	17.7	18.1	18.5	19.0	20.1
12H	4H	17.7	18.3	18.5	19.1	20.2	15.8	16.4	16.6	17.2	18.3
	6H	19.2	19.7	20.1	20.6	21.7	16.9	17.5	17.8	18.3	19.4
	8H	20.1	20.5	20.9	21.4	22.5	17.6	18.0	18.4	18.9	20.0

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 341.472 Located At Horizontal Angle = 112.5, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)